

Name	Sequence (5'→3')
miR-129-5p-forward	CGGCGGTGAGGTGTTTGG
miR-129-5p-reverse	GTGCAGGGTCCGAGGT
U6-forward	CTCGCTTCGGCAGCACA
U6-reverse	AACGCTTCACGAATTTGCGT
GAPDH-forward	ATCACCATCTTCCAGGAGCGA
GAPDH-reverse	CCTTCTCCATGGTGGTGAAGAC
ICAM1-forward	CAGCCAGGTGGTGATGTTTC
ICAM1-reverse	GTGGCTGTCTGTCTTGGTTG
RELA-forward	GAAGCCCTGAGGGAAGAAAT
RELA-reverse	CAGGGCTGCTTTTGCTTATC

**Supplementary Table 1.** Primer sequences for quantitative real-time polymerase chain reaction (qRT-PCR) in this study

Note: All qRT-PCR reactions were performed on the Applied Biosystems 7500 Real-Time PCR System with a two-step amplification procedure; the relative expression of target genes was calculated using the  $2^{-\Delta\Delta C_t}$  method.

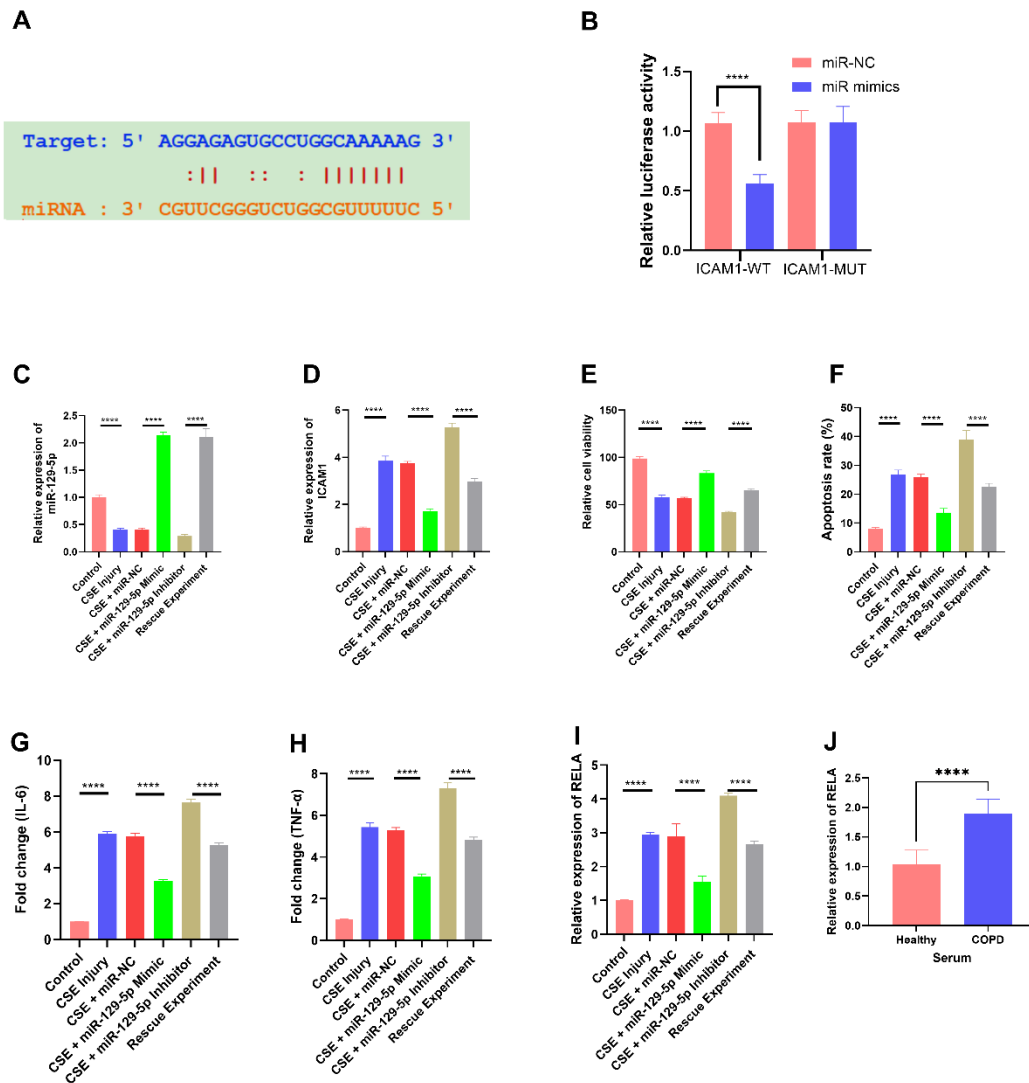
Abbreviations: qRT-PCR, quantitative real-time polymerase chain reaction; miR-129-5p, microRNA-129-5p; ICAM1, intercellular cell adhesion molecule 1; GAPDH, glyceraldehyde-3-phosphate dehydrogenase.

**Supplementary Figure 1.** Verification of the targeting relationship between miR-129-5p and ICAM1, and the functional experiment results in CSE-induced BEAS-2B cells (A) Predicted complementary binding site between miR-129-5p and the 3'UTR of ICAM1 mRNA; (B) Dual-luciferase reporter assay verified the targeted binding between miR-129-5p and ICAM1; (C) Relative expression of miR-129-5p in BEAS-2B cells of each group; (D) Relative expression of ICAM1 in BEAS-2B cells of each group; (E) Relative cell viability of BEAS-2B cells in each group detected by CCK-8 assay; (F) Apoptosis rate of BEAS-2B cells in each group detected by flow cytometry; (G-H) Levels of IL-6 and TNF- $\alpha$  in the cell supernatant of each group detected by ELISA; (I) Relative expression of RELA in BEAS-2B cells of each group; (J) Relative expression of RELA in serum from healthy controls and COPD patients.

Abbreviations: miR-129-5p, microRNA-129-5p; ICAM1, intercellular cell adhesion molecule 1; CSE, cigarette smoke extract; 3'UTR, 3' untranslated region; WT, wild-type; MUT, mutant-type; miR-NC, negative control microRNA; CCK-8, Cell Counting

Kit-8; ELISA, enzyme-linked immunosorbent assay; IL-6, interleukin-6; TNF- $\alpha$ , tumor necrosis factor- $\alpha$ ; COPD, chronic obstructive pulmonary disease.

Note: The thin line above the bar represents the standard deviation (SD); \*\*\*\*P < 0.001



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